

Hot Tips

Good info for the new ham, and old stuff to refresh your memory





Disaster ham radio setup

According to CERT (Community Emergency Prepare beforehand Response Team) literature, an *incident* is any • Obtain a General-class amateur radio license kind of problem, issue, hazard, or other event or situation that endangers people or property, including domesticated animals. An emergency is a sudden, unexpected critical incident, in which help is urgently required and • Check regularly into local nets to a) learn likely on the way. A disaster is a critical incident, in which help is likely not on the way, primarily because the incident is so widespread that services and resources are simply unavailable.

Effective communication is useful no matter the situation, and can often be managed using cell phones, or radio by respective government services, even during most emergencies. • Ham radio best practices During a disaster, such as an earthquake, hur- • How to set up a solar station ricane, wildfire, or flood, however, these same • Emergency procedures (how to call for help, fragile services might easily become compromised, leaving most people in the affected ar- . Learn what and how long it will take you to ea without a means of communication. This is where you come in.

Being ready for disaster communication means that you have the equipment for effec. • Learn to take notes on your smartphone tive communication and the skills to operate Your radio equipment it. The two typical communication situations that might require your station are home and mobile, and you likely want to be prepared for both cases. Remaining at home might mean that you're *sheltering in place*, taking care of a • Portable HF / VHF / UHF transceiver family member, or simply have no reason to • Portable VHF / UHF antenna leave your residence. Being mobile might • Portable HF antenna mean that you have a vehicle or are on foot, • Coax (50 feet and 100 feet) but typically relocating away from home.

Again, being ready means that you not only • Over-ear headset (especially if you're operathave the equipment, but that you know how to use it. And how ready you are might depend • List of necessary or useful frequencies on how willing you are, to take the time to educate yourself. Please note that some of these links might no longer be valid a year or more after the publication of this article.

- (this will allow you to transmit both locally and around the globe without the need for internet or other infrastructure)
- how to work your equipment and the repeaters, b) ensure your equipment is in working order, c) become accustomed to common operating procedures and radio language, and d) connect with others who might share your interest in disaster communication

Become educated

- how to answer such a call, how to relay)
- gather everything needed for an evacuation
- Learn how to read GPS coordinates off your smartphone

The following radio equipment checklist can be handy, to help ensure you have what you need when the time comes:

- Barrel connector
- ing in a noisy environment)
- Broadcast listening, including weather

Power needs

30 A power supply

Hot Tips

Continued



- 100 Ah 12 V LiFePO, battery
- 100 W solar panel
- 8 A solar charge controller
- Inverter with both alligator and accessory Anybody out there
- Batteries (AA, AAA, small SLA)
- Optional: generator

Support equipment

- Smartphone, charger
- Collapsible wagon
- Small folding table
- Portable chairs (preferably with backs)
- Optional: Windows Laptop, charger
- · Headlamp, lantern, work light, flashlight
- USB cable (for your phone or light or other)
- Hoodie or coat
- Work gloves
- Sunglasses
- Masting, stakes, prybar, hand sledge
- Guy wire
- Utility knife, multi-tool
- Scissors
- Duct tape
- Pen, paper, Sharpie
- Small bottles of water, water purifier
- Toilet paper, feminine hygiene
- Snacks, MREs
- First-aid kit, medicines
- Gallon Zip-loc bags
- Large duffel or case(s) to put all this in

You might also want to

- install Powerpole connectors on your trans- The end of the world ceivers. batteries
- solar panel
- ensure your rechargeable batteries are fully charged and ready at any time

Decide on your contacts

- Relatives (especially out-of-state)
- Friends and neighbors

- ARES
- · Public safety (fire, EMS, police, municipality, search-and-rescue, forest service, etc.)

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Practice

- setting up your radio and antenna from complete disassembly
- how to manually change to a repeater frequency and set it to simplex (talk-around)
- setting up your solar equipment from complete disassembly
- asking for signal reports from somebody farther away
- testing with one power source, then switch to a different one
- Test, test, test

Every disaster is different

The point of this guide is to provide yourself with sufficient ability to communicate your needs or those of somebody else in a disaster. Will you need everything listed here? Maybe, maybe not, maybe more. We haven't addressed any long-term possible necessities, such as shelter, toilet, heat, shower, and bedding, because long-term self-sustainability is not the goal here.

Furthermore, this guide is intended to help you and your family, not for you to replace the fire department. If it so happens that these quidelines can help you assist emergency personnel, then please feel free to serve in the capacities that best suit your circumstances, using your best means available.

If you can't afford to collect all of these items • install MC4-to-Powerpole adapters on your right away, it's not the end of the world. Take your time learning the things you need and to become prepared; you'll likely have plenty of time to upgrade your license and gather your equipment. And if it is the end of the world, chances are you'll have more important things to worry about than your ham radio gear.

